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AVERAGE AND PROBABILITY.

179. Proposed by HENRY HEATON, Atlantic, Iowa.

Through every point of the circumference of a given circle, chords are drawn in every possible direction. What is their average length?

180. Proposed by J. EDWARD SANDERS, Reinersville, Ohio.

There are n numbers in a box numbered from 1 to n. A number is drawn and replaced n times. Show that on the average the number of repeats is $\left(\frac{n-1}{n}\right)^n n$.

GROUP THEORY.

15. Proposed by PROF. R. D. CARMICHAEL, Anniston, Ala.

Prove that there is no simple group of odd order less than 10,394.

A CORRECTION.

Professor G. Peano has called my attention to the fact that in my article on the transcendence of e and π , Vol. 12, page 223, line 9, of the Monthly, Newton's formulas which should be $a_ns_1 + a_{n-1} = 0$, $a_ns_2 + a_{n-1}s_1 + 2a_{n-2} = 0$, etc., are cited incorrectly. This makes it necessary to introduce in the function $\phi(x)$ at the bottom of page 221, the factor a_n^{np-1} and to modify the expressions on pages 222 and 223 in a corresponding way. The corrections apply to the proof of the transcendence of π , that for the transcendence of e requiring no change. The necessary modifications are to be found in Mr. Lennes' and my "Introduction to Infinitesimal Analysis" where the proof is reproduced.

O. Veblen.

NOTES AND NEWS.

- Mr. L. Weeks of Yale University has been appointed instructor in mathematics in Purdue University.
- R. D. Carmichael has been appointed Professor of Mathematics in the Presbyterian College for Men at Anniston, Ala.
- Prof. T. E. McKinney of Marietta College has accepted the Professorship of Mathematics in the Wesleyan University.
- Dr. George Bruce Halsted has been appointed Professor of Mathematics in the State Normal School at Greeley, Colorado.